FIG.1

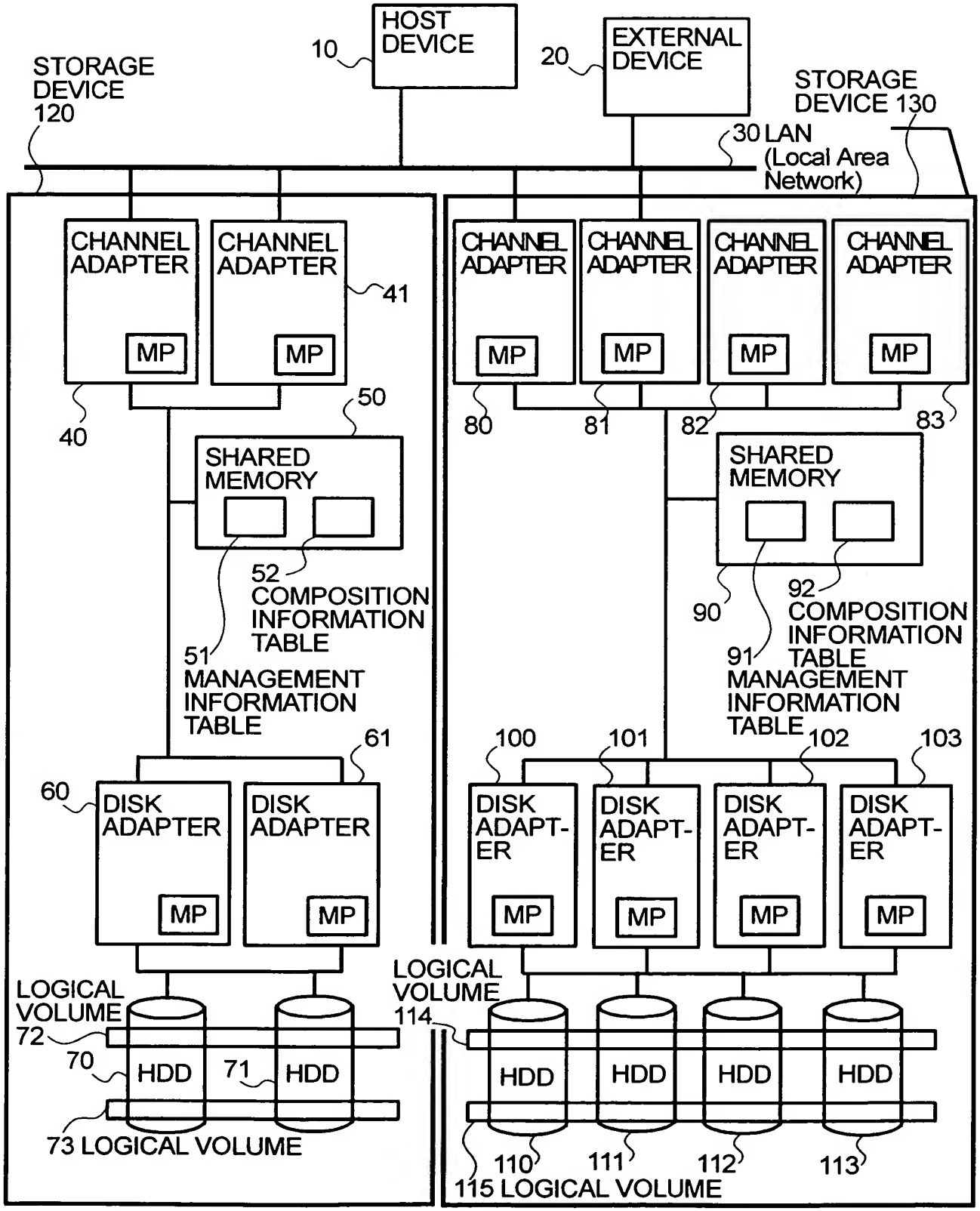

HOST DEVICE
10
EXTERNAL DEVICE
20
STORAGE DEVICE 120
STORAGE DEVICE 130
30 LAN (Local Area Network)
CHANNEL ADAPTER
MP
41
40
50
SHARED MEMORY
52 COMPOSITION INFORMATION TABLE
51 MANAGEMENT INFORMATION TABLE
80
81
82
83
90
91
92 COMPOSITION INFORMATION TABLE
MANAGEMENT INFORMATION TABLE
60
61
DISK ADAPTER
DISK ADAPT-ER
100
101
102
103
LOGICAL VOLUME
72
70
71
HDD
73 LOGICAL VOLUME
LOGICAL VOLUME 114
110
111
112
113
115 LOGICAL VOLUME

FIG.2

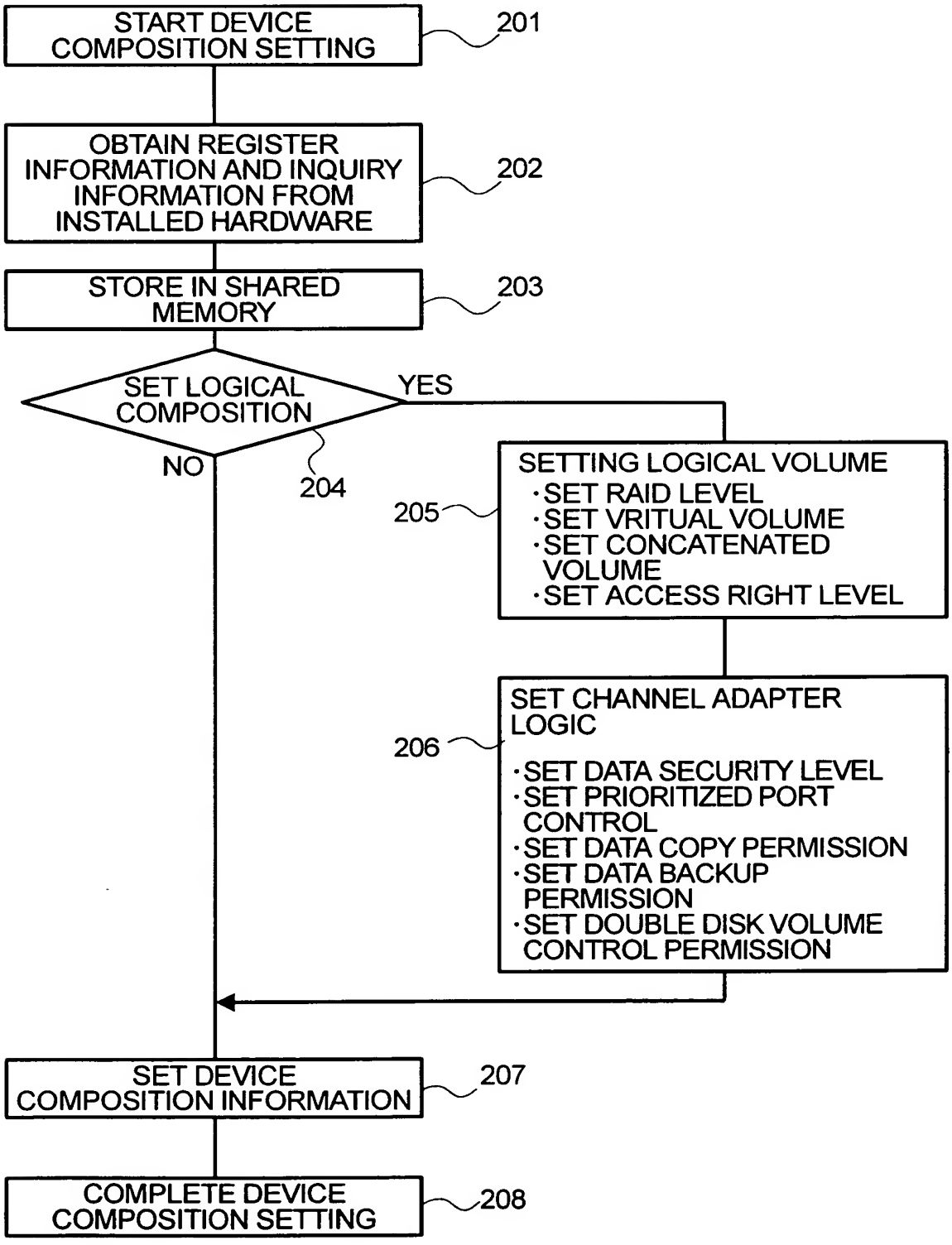

START DEVICE COMPOSITION SETTING
201
OBTAIN REGISTER INFORMATION AND INQUIRY INFORMATION FROM INSTALLED HARDWARE
202
STORE IN SHARED MEMORY
203
SET LOGICAL COMPOSITION
YES
NO
204
205
SETTING LOGICAL VOLUME
·SET RAID LEVEL
·SET VRITUAL VOLUME
·SET CONCATENATED VOLUME
·SET ACCESS RIGHT LEVEL
206
SET CHANNEL ADAPTER LOGIC
·SET DATA SECURITY LEVEL
·SET PRIORITIZED PORT CONTROL
·SET DATA COPY PERMISSION
·SET DATA BACKUP PERMISSION
·SET DOUBLE DISK VOLUME CONTROL PERMISSION
SET DEVICE COMPOSITION INFORMATION
207
COMPLETE DEVICE COMPOSITION SETTING
208

FIG.3

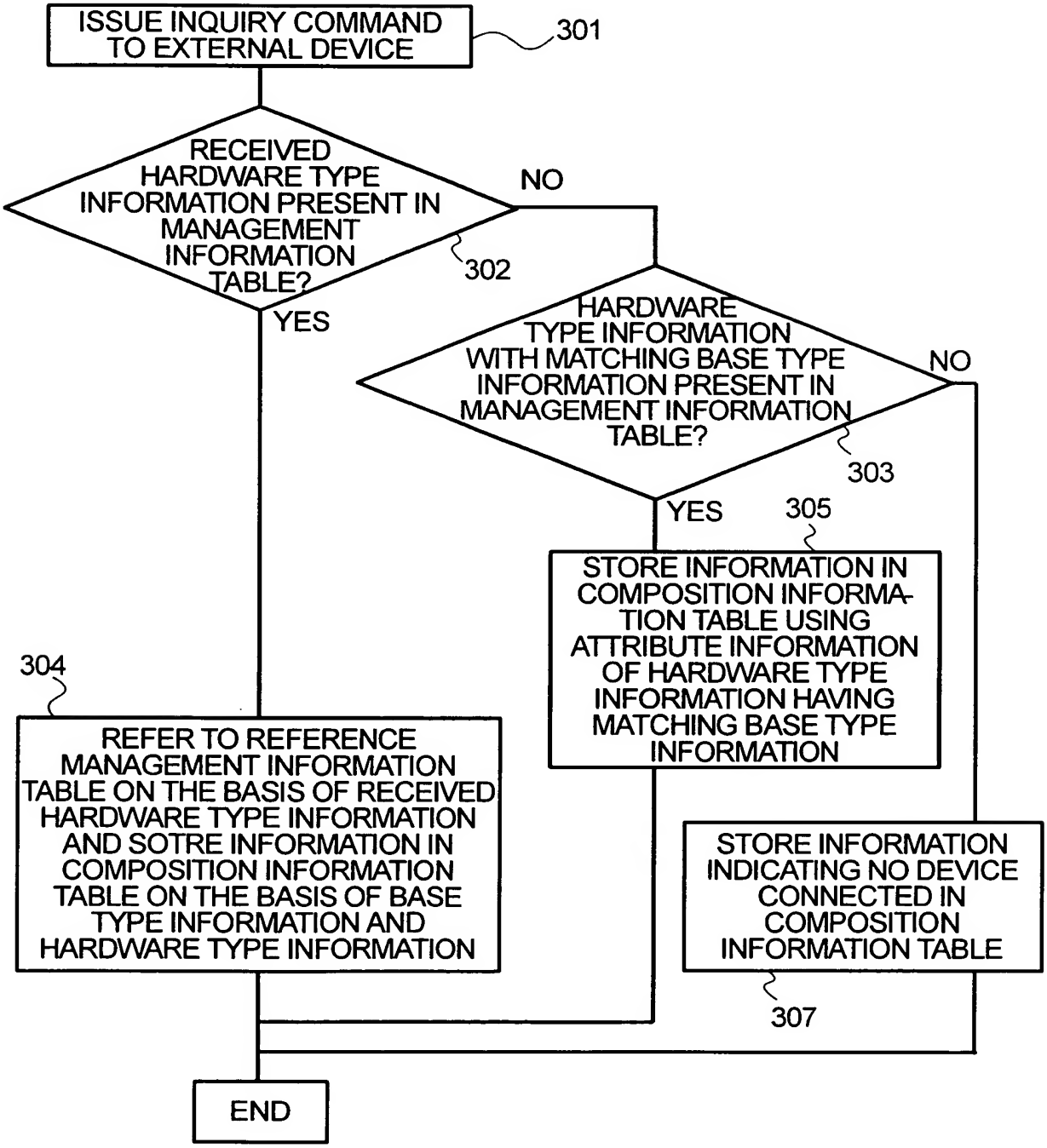

ISSUE INQUIRY COMMAND TO EXTERNAL DEVICE
301
RECEIVED HARDWARE TYPE INFORMATION PRESENT IN MANAGEMENT INFORMATION TABLE?
302
NO
YES
HARDWARE TYPE INFORMATION WITH MATCHING BASE TYPE INFORMATION PRESENT IN MANAGEMENT INFORMATION TABLE?
303
NO
YES
305
STORE INFORMATION IN COMPOSITION INFORMATION TABLE USING ATTRIBUTE INFORMATION OF HARDWARE TYPE INFORMATION HAVING MATCHING BASE TYPE INFORMATION
304
REFER TO REFERENCE MANAGEMENT INFORMATION TABLE ON THE BASIS OF RECEIVED HARDWARE TYPE INFORMATION AND SOTRE INFORMATION IN COMPOSITION INFORMATION TABLE ON THE BASIS OF BASE TYPE INFORMATION AND HARDWARE TYPE INFORMATION
STORE INFORMATION INDICATING NO DEVICE CONNECTED IN COMPOSITION INFORMATION TABLE
307
END

FIG.4

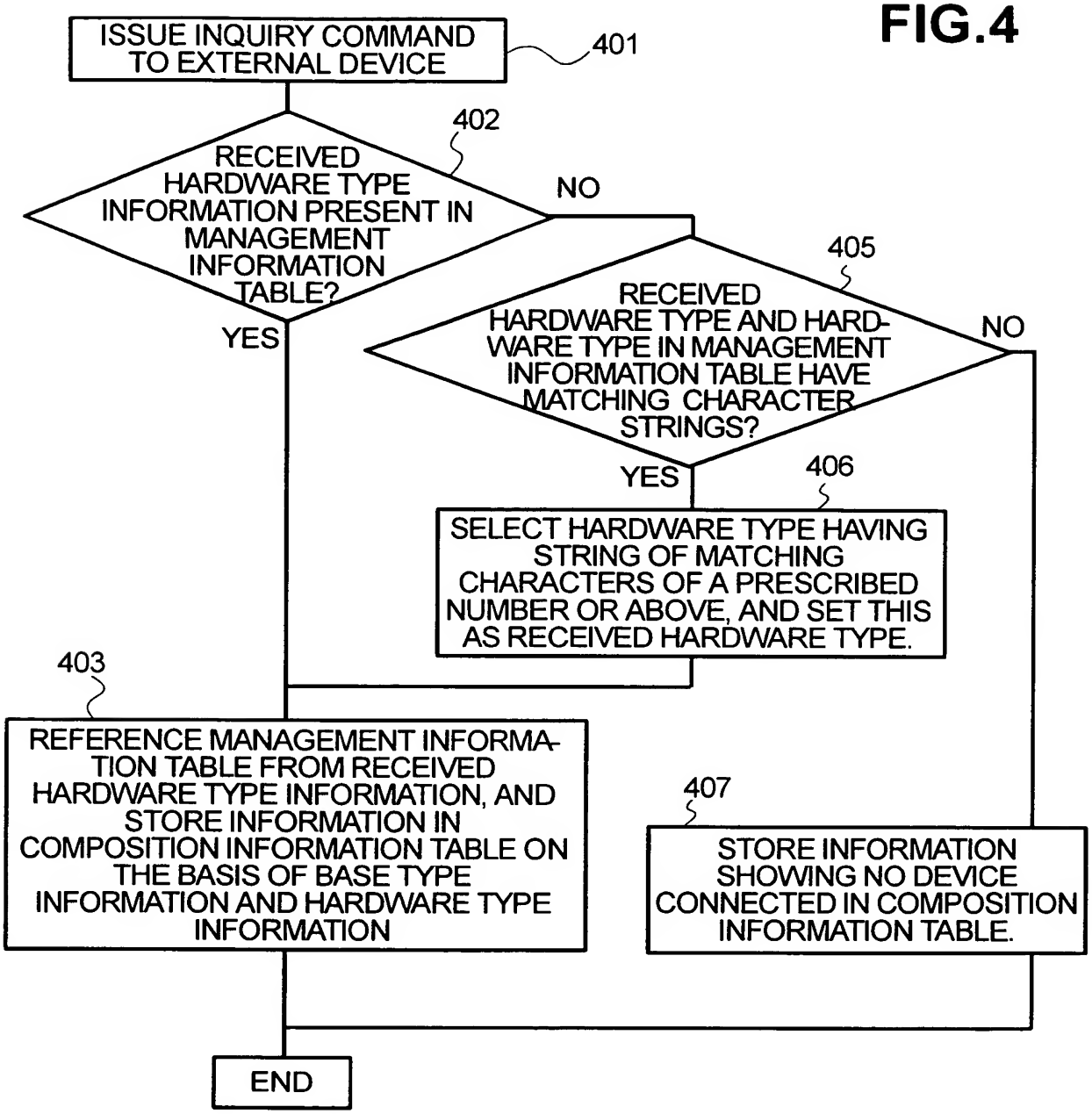


FIG.5

501 MODEL	503 DEVICE CAPACITY	504 DEVICE EMULATION TYPE
A-01	2.29G	OPEN-3
A-02	43.94G	OPEN-M
B-01	13.56G	OPEN-E

505 HARDWARE TYPE INFORMATION

506 BASE TYPE INFORMATION

FIG.6

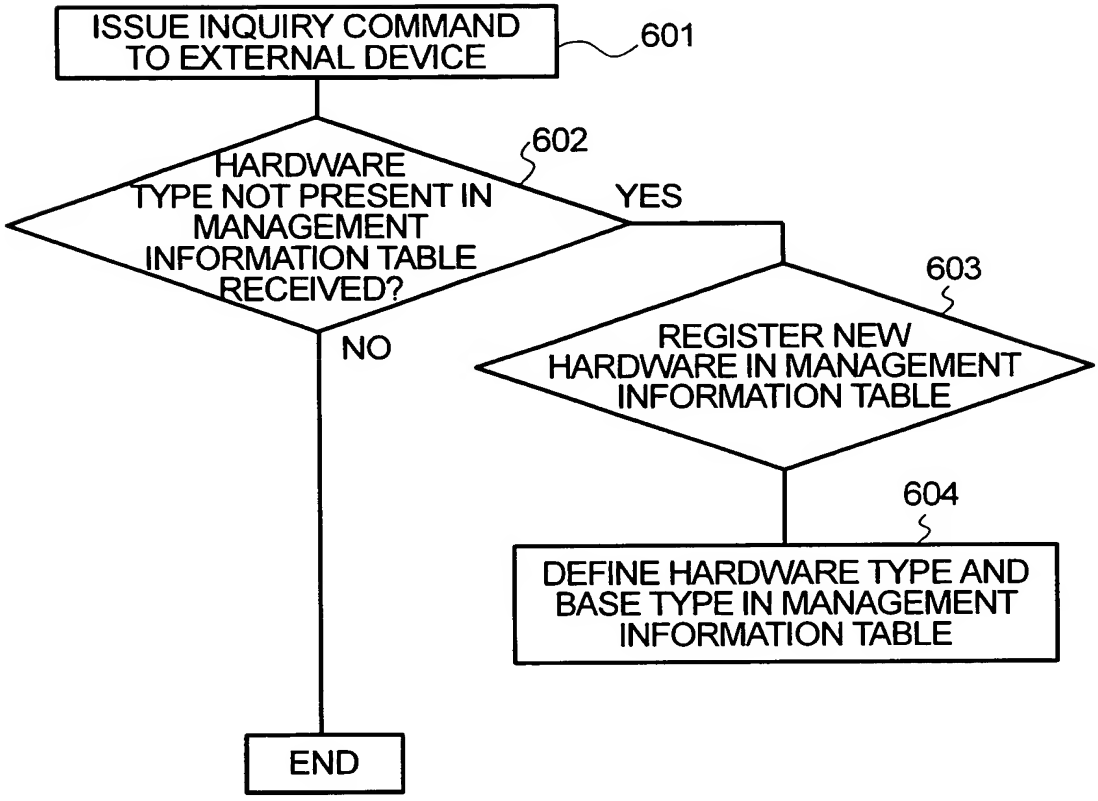
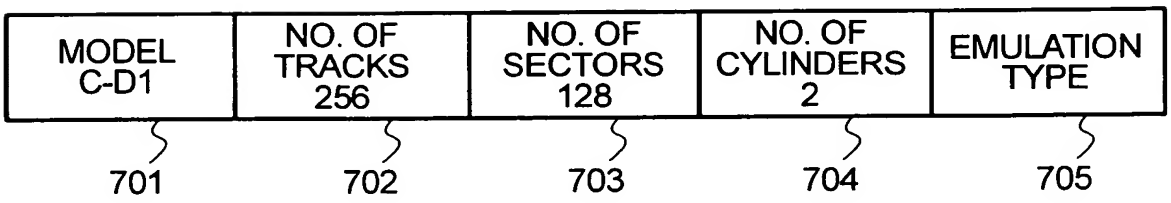

ISSUE INQUIRY COMMAND TO EXTERNAL DEVICE
601
HARDWARE TYPE NOT PRESENT IN MANAGEMENT INFORMATION TABLE RECEIVED?
602
YES
NO
603
REGISTER NEW HARDWARE IN MANAGEMENT INFORMATION TABLE
604
DEFINE HARDWARE TYPE AND BASE TYPE IN MANAGEMENT INFORMATION TABLE
END

FIG.7


MODEL C-D1
NO. OF TRACKS 256
NO. OF SECTORS 128
NO. OF CYLINDERS 2
EMULATION TYPE
701
702
703
704
705